



IDEAL NETWORKS



VDV II

Voice, Data and Video
Cable Verifier



SignalTEK® CT

Data Cable
Transmission Tester



SignalTEK® NT

Cable and Network
Transmission Tester



NaviTEK® NT

Network
Troubleshooter



LanXPLORER® Pro

In-line Network
Tester /Analyzer



LanTEK® II

Cable Certifier

Data Cable & Ethernet Testers & Certifiers

Proof of Performance

VDV II

The new VDV II Series are easy to use cable testers that check the integrity of copper cables commonly found in domestic, commercial or industrial voice, data or video installations, including telephone wiring, data network and video/security cabling.

Employing state-of-the-art technology, VDV II offers functionality not previously available in a wiremapper. The advanced wiremap engine accurately displays complex wiring faults instantaneously while TDR (Time Domain Reflectometry) aids troubleshooting and improves on-site productivity.



FEATURES & BENEFITS

- RJ45, RJ11/RJ12 and coax ports
- TDR technology pinpoints cable faults eliminating unnecessary guess work
- PoE service detection with voltage information
- Ethernet speed detection up to 1000 Mb/s
- Ability to identify and trace cables with a compatible inductive tone probe (optional)
- Support for all common LAN cables (TIA 568A/B wiring schemes)
- Large backlit screen provides instantaneous, easy to read test results
- Identifies analog (PBX) and digital (ISDN) telephone services
- Displays network rate and duplex information
- Ability to identify a cable on an active network by blinking the switch's link LED
- Protected from high voltage damage

Part No.	Kit Contents
R158000	VDV II – Coax, 6 pin (RJ11/12), 8 pin (RJ45) connectors for copper cable testing, wiremap for miswires, split pairs, shorts and opens, analog tone generator, voltage protection, shielded cable testing, single screen results. Includes remote #1 and 9V battery.
R158002	VDV II Plus – Includes everything in VDV II as well as large 2.9" screen, back light, hub blink, cable length, distance to open, carry case & cable kit (2 x 15in alligator clips, 2 x 6in RJ45 shielded patch cords, 2 x 4in RJ 11/12 patch cords, 1 x 9in F coax patch cord, 1 x F81 barrel coupler, 1 x BNC female to F male adapter, 1 x RCA female to F female adapter), 1 x wiring reference card.
R158003	VDV II Pro – Includes everything in VDV II Plus as well as distance to open / short (TDR), PoE detection with voltage information, digital/analog phone and ISDN detection, hub/ switch port blink, Ethernet service detection with connection speed (10/100/1000 Mb/s) and duplex information.
62-164	1 x IDEAL amplifier probe

Part No.	Recommended Accessories
158050	Kit of 12 x RJ45 remote units* (#1 - #12)
158051	Kit of 24 x RJ45 remote units* (#1 - #24)
158053	Kit of 12 x coax remote units* (#1 - #12)

* Separate numbered remotes allow multiple cables to be tested more quickly

SignalTEK® CT

SignalTEK CT allows cable installers to generate PDF test reports that prove installed links provide error-free performance at Gigabit speeds using real Ethernet data for absolute certainty.

Data transmission testing is a cost-effective way to prove LAN cabling is installed correctly and is capable of supporting Ethernet applications. By proving real world performance, SignalTEK CT confirms a professional job providing peace of mind and minimizing call-backs.

SignalTEK CT also gives network owners the assurance that installed cabling will support bandwidth hungry services like VoIP, IP CCTV and video streaming.

Use the free IDEAL AnyWARE™ app to view and send data cable/network test reports to colleagues and clients anywhere.



FEATURES & BENEFITS

- Fast Autotest provides proof of 1000Base-T network performance in seconds
- USB port enables rapid transfer of PDF and CSV (Excel) test results to flash drive
- Supports shielded and unshielded twisted pair cable including Cat 5e, Cat 6, Cat 6A and Cat 7
- Stores up to 5,000 tests in separate folders to accommodate even the largest jobs
- Identify and trace cables with a compatible amplifier probe (62-164)
- Tests against IEEE 802.3ab gigabit Ethernet standard to assure cabling performs to a recognized international standard
- Field replaceable RJ45 contacts eliminate downtime from worn or damaged connectors
- No requirement for annual calibration reducing cost of ownership

Part No.	Kit Contents
R156004	SignalTEK CT - Data Cable Transmission Tester. Includes 1 x display, 1 x remote, 2 x NiMH batteries, 2 x patch cables - 30cm, Cat 5e STP, 2 x power supply with EU/UK/US adapters, 1 x user manual, 1 x carry case

Part No.	Recommended Accessories
150058	10 replacement RJ45 inserts with extraction tool
151052	One alkaline battery module to allow operation with 4 AA batteries.
62-164	1 x IDEAL amplifier probe

SignalTEK® NT

SignalTEK NT tests the performance of voice, data, video and CCTV applications on 10/100/1000 Mb/s Ethernet networks issuing a report to prove installed data cables or networks can carry Ethernet traffic at full speed without packet errors.

SignalTEK NT utilizes a method known as transmission testing to prove the performance of a network by sending real Ethernet data frames through the cabling and/or network devices and comparing the received data with the transmitted data to determine the error rate. This method stress tests the network to generate reports of real world 1000Base-T performance to the IEEE 802.3ab gigabit Ethernet standard.

In addition to data transmission testing, when connected to an active network, SignalTEKNT also uses CDP and LLDP to display the MAC address

SignaTEKNT supports IDEAL AnyWARE™, a new mobile app that wirelessly connects SignalTEK with a mobile device to transfer test reports to the device. Once data is transferred, PDF and CSV reports can be viewed on the device and sent using email or Internet file sharing services supported by the device. Compatible with both iOS and Android devices.



Part No.	Kit Contents
R156003	SignalTEK NT kit includes 1 x Near-End unit, fiber ready, 1 x Remote unit fiber ready
Additional content: 2 x Power module (rechargeable), 2 x Mains PSU/charger, 2 x 12in/30cm RJ45 cable, 1 x Quick reference guide (English), 1 x User manual CD, 1 x Carrying case	

FEATURES & BENEFITS

- Gigabit performance testing on passive cabling and active networks
 - Generates test reports to IEEE 802.3ab standard
 - Simulates VoIP/CCTV/Web/ IP video network traffic
 - Displays MAC address and port ID of connected switch with CDP/LLDP.
 - Detect presence of PoE and measure voltage on each pair
 - Advanced PoE/PoE+ load testing
- ensures the network can deliver at least 8/16 watts to PoE/PoE+ devices
 - Full Gigabit bi-directional load testing through hubs and switches
 - RJ45 and SFP fiber optic ports
 - Simulate network traffic generated by new IP devices to confirm network capacity before adding new devices like VOIP or CCTV
 - Verify connection speed up to 1000 Mb/s
 - Ping and trace route tests verify LAN
- connectivity and Internet access on IPv4 and IPv6 networks
 - Locate wiremap faults more quickly and accurately by testing every pin and pair, detecting split pairs and identifying the distance to fault
 - Testing complies to the IEEE 802.3ab Gigabit Ethernet standard
 - Field replaceable RJ45 contacts eliminate downtime from worn or damaged connectors

LanTEK® II



LanTEK II is used for the certification of twisted pair, coax and fiber optic data cable to ensure full compliance with TIA-568 performance standards. Certification reports may be used to obtain warranties from connector and cabling system manufacturers.

With frequency ranges of 350MHz, 500MHz and 1GHz, LanTEK II is able to certify copper cabling up to Category 7A performance levels.

FEATURES & BENEFITS

- Certification up to 1000 MHz with memory capacity for over 1500 reports
- Perform channel and permanent link tests using same universal measurement adapter
- Quickly test Cat. 6A/ISO Class E_A links in just 17 seconds
- Long life Lithium Ion battery with 18 hour on-site battery life
- Options for Cat 7 (GG45, TERA, EC7), Cat 7A (GG45, TERA, EC7), Coaxial BNC connection, Industrial M12 Ethernet adapter, 10 Gb/s Alien Crosstalk
- 3 models: 350, 500 and 1,000 MHz
- Accuracy Levels III, IIIe and IV
- LanTEK II 350 and 500 upgradeable to LanTEK II 1000

Part No.	Kit Contents
33-991	LanTEK® II-350 - 350MHz certifier - Cat 6 and lower, includes Cat 6 adapters
33-992	LanTEK® II-500 - 500MHz certifier - Cat 6A and lower, includes Cat 6A adapters
33-993	LanTEK® II-1000 - 1000MHz certifier - Cat 7A and lower, includes Cat 6A adapters
TRADE992	Trade in an approved certifier or "qualifier" for a discount on the LanTEK® II-500
TRADE993	Trade in an approved certifier or "qualifier" for a discount on the LanTEK® II-1000

Combination LanTEK II + FiberTEK FDX combinations also available.
3 year Care Plans available including calibration, repair, loaner tester and warranty extension.

FIBER Certification

FiberTEK® FDX



The FiberTEK® FDX option allows standards compliant fiber optic certification capability to be added to any LanTEK® II series certifier.

FiberTEK FDX provides fast bi-directional, dual wavelength optical loss (dB) and length measurements meeting Tier 1 certification requirements. Available in multimode (850/1300nm) and single-mode (1310/1550nm) configurations.

FEATURES & BENEFITS

- Attenuation/insertion loss (dB) measurement in both directions
- Certification up to 40 Gb/s
- Real-time power meter aids in troubleshooting
- Field changeable adapters included (SC, ST, FC)
- Certifies fiber optic cable performance to ISO 11801 and TIA 568-C standards
- Meet cabling specifications as required by engineers, designers and clients
- Includes VFF5 laser visual fault locator

Part No.	Kit Contents
33-990-FA01	FiberTEK® FDX : Multimode (850/1300nm) kit with LED light sources for OM1 to OM4 multimode fiber
33-990-FA03	FiberTEK® FDX : Single-mode (1310/1550nm) kit with laser light sources for single-mode fiber
33-990-FA04	FiberTEK® FDX : Combination MM/SM kit with LED MM sources and Laser SM sources

VFF5

The Visual Fault Finder is a visible laser light source used to verify continuity, test and find breaks in fiber links, locate pinched fiber strands in enclosures, or anywhere fiber optic cables are terminated and subject to mechanical damage. The VFF5 is useful to a distance of approximately 5km (3.1mi) into multimode and single-mode fiber. Use it as a front-line troubleshooting tool, or in conjunction with an OTDR to pinpoint faults. Breaks will be seen as a glowing or blinking red lit area.

The VFF5 can also be used when terminating mechanical splices or crimp connectors where leaking light is an indicator of a poor fiber cleave or other misalignment.



FEATURES & BENEFITS

- Visual monitoring of fiber cable continuity
- Pinpoints breaks and crimps through light loss through the buffer
- Detect faulty splices
- Quick on-site checks of pre-terminated fiber cable assemblies
- Continuous and flashing signal modes
- Useful for single-mode and multimode fibers up to 5km (3 miles) length
- Non-roll design rugged metal housing protected by Santoprene® (rubber) non-slip sleeve

Part No.	Kit Contents
VFF5	VFF5 fiber optic cable continuity tester, fault finder/locator. Includes carry pouch, belt/bag clip and 2 x AA batteries.
135051	FC to LC adapter

FiberMASTER

FiberMASTER is a simple and easy to use tester for fast certification and troubleshooting of fiber optic cabling systems, providing optical power loss (dB) measurements meeting Tier 1 certification requirements.

FiberMASTER measures power (dBm/mW) received from any device which aids troubleshooting equipment that may not be operating properly. The dB calibration feature allows the operator to set a reference level to the light source and directly read the loss of fiber optic links for instant certification testing. The unique form factor allows the light source to be docked neatly within the power meter making the kit compact for easy storage while still allowing full operation.



FEATURES & BENEFITS

- Quickly measures cabling loss (dB) with calibration feature
- Measures fiber optic power for troubleshooting
- Power meter: universal 2.5mm slip-fit/FC connectors
- Light source: interchangeable SC/ST/FC connectors
- Multimode and single-mode options
- Power meter features 850, 1300, 1310, 1490 and 1550 nm measurements
- Absolute power measurement in dBm and mW, power loss display in dB
- Auto Power Off
- Multimode kit: 850/1300 nm light source
- Multimode/single-mode kit: 850/1300/1310/1550 nm light source
- Light source docks in the bottom of the power meter for easy storage
- Operates on AAA batteries, 3 each for power meter and light source
- Low battery indication
- Includes padded carry pouch

Part No.	Kit Contents
33-928	FiberMASTER - MM/SM power meter with 850nm MM only light source. Includes soft case, manual and cable kit.
33-931	FiberMASTER - MM/SM fiber optic test kit with quad wavelength 850/1300/1310/1550nm light source. Includes soft case, manual and MM/SM cable kit.
135051	FC to LC adapter - Order two (2) for use on light source and power meter.

SecuriTEST® Pro

SecuriTEST® Pro is the most versatile all-in-one installation and troubleshooting tool for the CCTV professional. It brings CCTV camera testing to a higher level with integrated IRE testing of sync and video levels to ensure the best possible video quality.

CCTV installers often need to carry a variety of testing tools to complete their work. SecuriTEST Pro combines eight essential tools in one easy-to-carry package: a CCTV video monitor, IRE signal level meter, PTZ camera controller, digital multi-meter, UTP wire map cable tester, video test pattern generator, PTZ protocol analyzer and Camera Programmer in a single compact package.



FEATURES & BENEFITS

- Analog CCTV installation and troubleshooting tool
- Compatible with 20+ PTZ protocols
- Test, aim, focus and program cameras when working alone. Save time by not having to walk back to the control center to verify operation of each camera.
- Sharp, bright 2.5in (6.3cm) color LCD screen with on-screen displays for PTZ control/diagnostics and DMM readouts.
- PTZ protocol analyzer
- compatible with 20+ PTZ protocols to test and program cameras in the field, troubleshoot faulty controllers, wiring or cameras.
- Video level, sync and audio testing
- Lithium polymer battery
- Program camera tours and other functions
- Integrated UTP cable tester
- Category I digital multimeter with continuity, AC/DC volts, amperage and resistance modes

Part No.	Kit Contents
33-892	SecuriTEST Pro – CCTV tester with carrying pouch, lithium battery pack, 120/240V power adapter/charger, UTP wire map test remote, BNC cord and user manual.
33-892-BP	Replacement lithium polymer battery pack

LanXPLORED Pro

LanXPLORED Pro is an In-line tester for diagnosing problems in active and passive networks. Capabilities include troubleshooting for Ethernet connectivity and identifying faults in copper cables. Networks can be accessed through copper, fiber and Wi-Fi interfaces.

LanXPLORED Pro includes advanced PoE and PoE+ (802.3at) detection capabilities to measure power available to devices at the end of long runs when troubleshooting. Example, know when only 11 watts of power are available to a device that requires 13 watts. The In-line mode also measures the power consumption of PoE and PoE+ devices in real-time displaying the wattage drawn by the powered device.

LanXPLORED Pro enables monitoring of VoIP calls to measure Quality of Service (QoS) statistics including Real Time Transport Protocol (RTP) and jitter. When placed between any two points in a network, the MAC and IP addresses and name of the top 10 bandwidth consuming devices is displayed to identify sources of network slow-downs. It also displays the external IP address (website) that devices inside the LAN are connected to allowing administrators to identify the source of the traffic, ex., video or music streaming.



Part No.	Kit Contents
R150001	LanXPLORED Pro - PREMIUM package includes 1 x LanXPLORED Pro test unit, 1 x Remote unit #1, 1 x High Sensitivity WiFi Antenna, 1 x IDEAL amplifier probe 62-164, 1 x RJ45 insert extraction tool plus 10 x replacement RJ45 inserts *
	Additional content: 2 x Power module (rechargeable), 2 x Mains PSU/charger, 2 x 12in/30cm RJ45 cable, 1 x Quick reference guide (English), 1 x User manual CD, 1 x Carrying case

FEATURES & BENEFITS

- In-Line feature (RJ45) allows monitoring of network traffic between any two points in the network to diagnose Ethernet issues that cannot be detected by software tools running on a PC or managed switch
- Identifies top 10 band width consuming devices (both transmitting and receiving) on the network to help troubleshooting
- Monitor total network bandwidth throughput
- Identify band width consumed per device
- Voice over IP (VoIP) QoS testing
- Identify MAC and IP address of all devices on network
- Identify sources of network congestion
- Identify new, missing or rogue network devices
- Troubleshoot PoE/PoE+ devices
- Determine cause of VoIP quality issues
- Locate Wi-Fi dead spots
- Determine whether source of network connectivity issue is the LAN or PC/Network device
- Cable installation testing - i.e. wiremap/length/TDR
- Port profiling - check ID and services provided at each port of a switch
- Network auditing - i.e. document devices connected to LAN

NaviTEK® NT

NaviTEK II is a versatile network technician's tester for troubleshooting and maintenance of active and passive networks across copper and fiber, helping to pinpoint and solve networking issues quickly. Decreases device downtime by allowing field technicians to discover the root cause of network connectivity issues such as incorrect IP configuration, rouge network services and network bandwidth issues.



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FEATURES & BENEFITS

- Detailed network statistics including Protocol, Frame, IP analysis and switch speed 10/100/1000 Mb/s information simplify device configuration and aid troubleshooting
- Determines speed capability of PC and other Network Devices
- Customisable test suite allows you to choose from simple service detection to detailed diagnostics
- Configurable by DHCP or static IP with VLAN capability
- IPv4 and IPv6 compatible
- PBX/ISDN/analog (POTS) - displays type of service and voltage/polarity on each pair
- Network/internet connectivity with Ping/Traceroute to IP address and URL
- Network DNS by resolving URL to IP address
- Netscan counts number of devices on subnet
- Network connectivity- DHCP/CDP/LLDP
- PoE 802.3af service detection
- Test storage and reporting
- Cable tracing/distance to fault (TDR)

Part No.	Kit Contents
R153001	NaviTEK NT Kit: 1 x NaviTEK II test unit, 1 x Remote unit no. 1*
R151003	NaviTEK NT PLUS Kit: 1 x NaviTEK II PLUS test unit, 1 x Remote unit no. 1
R151004	NaviTEK NT Pro Kit: 1 x NaviTEK II Pro test unit, 1 x Remote unit no. 1. See accessories page for SFP fiber optic modules.
Additional content: 2 rechargeable NiMH battery packs, 2 x Patch cables - 12/in30cm, Cat. 5e STP, 1 x Manual on CD, 1 x Quick reference guide, 1 x Carrying case	

Feature	R153000 Basic Model	R151000 Plus Model	R151002 Pro Model
IPv4/IPv6	✓	✓	✓
TDR Fault Finding	✓	✓	✓
802.3af PoE Detection	✓	✓	✓
Test Results Storage		✓	✓
EDP/CDP/LLDP Port ID		✓	✓
VLAN Support		✓	✓
802.1x Security Support			✓
Fiber Optic Ready			✓

Tone & Probe Kit

Professional quality Amplifier Probe designed to identify and trace wires or cables within a group without damaging the insulation allowing for pin point identification even in the most congested cable bundles. one generator injects tracing signal onto any type of wire for cable tracing. Troubleshoot wire and telephone problems with integrated continuity testing and analog telephone polarity indicator.

FEATURES & BENEFITS

- Non-conductive tip prevents short circuits
- Recessed activation button prevents accidental battery drain
- Adjustable volume control
- Three selectable tones
- RJ11, F and alligator clip connections
- Powered by 9V battery with low battery indicator



Part No.	Kit Contents
33-864	Tone & Probe Kit with padded carry pouch

IDEAL AnyWARE™



IDEAL AnyWARE is a free app for iOS and Android devices that wirelessly connects to AnyWARE compatible IDEAL Networks testers allowing users to transfer PDF & CSV test reports or individual test results to the mobile device. Once on the device the reports can be sent to colleagues via email or cloud based file sharing services.

FEATURES & BENEFITS

- Instantly send data from the job site to project managers and customers
- Backup test data from the field for safe keeping
- Improve productivity by eliminating the need to transport test data on physical media



TESTER Options & Accessories

Part No.	Description	Tester Compatibility
SignalTEK NT / SignalTEK CT / NaviTEK NT / LanXPLOER		
WIFI-ADPT	USB Wi-Fi adapter allows tester to connect to IDEAL AnyWARE iOS and Android mobile apps	All except standard NaviTEK model R153000
MGKSX1	1000BASE-SX multimode fiber optic option - Includes one (1) multimode 850nm SFP (Small Form factor Pluggable) transceiver, LC/LC and LC/SC duplex multimode cables and SC/SC duplex coupler. Order 2 for use with SignalTEK NT/FO.	SignalTEK NT/FO NaviTEK NT Pro model LanXPLOER Pro
MGKLX2	1000BASE-LX multimode/single-mode fiber optic option - Includes one (1) multimode/single-mode 1310nm SFP (Small Form factor Pluggable) transceiver, LC/LC and LC/SC duplex single-mode cables and SC/SC duplex coupler. Order 2 for use with SignalTEK NT/FO.	SignalTEK NT/FO NaviTEK NT Pro model LanXPLOER
MGKZX3	1000BASE-ZX single-mode fiber optic option - Includes one (1) single-mode 1550nm SFP (Small Form factor Pluggable) transceiver, LC/LC and LC/SC duplex single-mode cables and SC/SC duplex coupler. Order 2 for use with SignalTEK NT/FO.	SignalTEK NT/FO NaviTEK NT Pro model LanXPLOER Pro
150058	RJ45 connector insert kit - Replace worn or damaged connectors. Eliminates need to send testers in for repair of common wear item. Includes 10 replacement RJ45 inserts, 1 x RJ45 removal tool.	SignalTEK - all models NaviTEK NT - all models LanXPLOER
150054 150059 150050	Active wiremap remote ID# 1 - Advanced 2-sided wiremap testing, P/F LED indicator Active wiremap remote kit ID# 2-6 - Advanced 2-sided wiremap testing, P/F LED indicator Active wiremap remote kit ID# 2-12 - Advanced 2-sided wiremap testing, P/F LED indicator	SignalTEK - all models NaviTEK NT - all models LanXPLOER
151051	Power adapter/battery charger - with US/UK/Euro plugs. 120-240V, 50/60Hz (each)	SignalTEK - all models NaviTEK NT - all models LanXPLOER
151052 151053	AA Battery module - holds 4 x AA alkaline non-rechargeable batteries, each Rechargeable NiMH battery pack - with charging input port, each	SignalTEK - all models NaviTEK NT - all models
150062 150053	AA Battery module - holds 4 x AA alkaline non-rechargeable batteries, each Rechargeable NiMH battery pack - Replacement battery pack with plug, each	LanXPLOER
VDV II Series		
158050 158051 158053	RJ45 Wiremap remote kit ID# 1-12 (provides ID, wiremap test results and length measurement) RJ45 Identifier kit ID# 1-25 (provides ID and length only) Coax F connector remote kit ID# 1-12 (ID, wiremap result, length)	VDV II - all models
LanTEK II Series		
LT2-CP-3	CarePlan for LanTEK II - Extends total warranty to 3 years, includes annual calibration, free repair with loan tester, and coverage of accessories including batteries, test adapters and cords.	LanTEK II - all models
FDX-CP-3	CarePlan for FiberTEK FDX modules. Extends warranty to three years and covers service and calibration. For one (1) set of modules, i.e. MM or SM.	LanTEK II - all models
FDX2-CP-3	CarePlan for FiberTEK FDX modules. Extends warranty to three years and covers service and calibration. For two (2) sets of modules, i.e., MM & SM.	LanTEK II - all models
LANTEK10GBKIT	Alien crosstalk kit to test Cat 6 and Cat 6A cabling for 10 Gigabit performance	LanTEK II 500 & 1000
0012-00-0629	Single Cat 6 RJ45 universal permanent link/channel test adapter	LanTEK II - all models
0012-00-0656	Single Cat 6A RJ45 universal permanent link/channel test adapter	LanTEK II 500 & 1000
1019-00-0343	Coax testing kit with BNC connectors (2 adapters)	LanTEK II - all models
1019-00-1105 6011-50-0027	Siemon TERA® Cat 7/7A testing kit (2 adapters) - Patch cords not included 2 TERA® Cat 7/7A patch cords	LanTEK II 1000
0012-00-0653 6011-50-0039	Nexans GG45 Cat 7/7A testing kit (2 adapters) - Patch cords not included 2 GG45 Cat 7/7A patch cords.	LanTEK II 1000
33-990-BP01	LanTEK II Lithium Ion battery pack (each)	LanTEK II - all models
33-990-PS01	LanTEK II power supply/charger with US/UK/Euro plugs - 110-240V, 50/60Hz	LanTEK II - all models



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